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ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: AN INTEGRATED MEDICAL INFORMATION MANAGEMENT AND MEDICAL DEVICE CONTROL SYSTEM
AND METHOD

(57) Abstract: An integrated medical information management and medical device control system and method are described that
links multiple users and multiple medical devices together in a coordinated fashion. The linkage of users and medical devices is
accomplished using a bi-directional network and a centralized host system. Users of the system are able to communicate with each
other, operate medical devices from remote locations, access information from diverse sources automatically monitor a patent's
status.

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INTERNATIONAL SEARCH REPORT

International Application No

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06F19/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 822 544 A (VINCENS JOE ET AL) 13 October 1998 (1998-10-13) abstract column 1, line 36 -column 2, line 4 column 3, line 17 -column 3, line 47 column 7, line 50 -column 7, line 67 ---	1-10
A	H LEE ET AL: "REMOTE PATIENT MONITORING SERVICE THROUGH WORLD-WIDE WEB" ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY, US, NEW YORK, NY: IEEE, 30 October 1997 (1997-10-30), pages 928-931, XP002129894 ISBN: 0-7803-4263-1 the whole document --- -/--	3

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

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International Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 854 324 A (HIRSCHMAN ALAN D ET AL) 8 August 1989 (1989-08-08) abstract ----	10
X	XIN LI ET AL: "A World Wide Web telemedicine system" PROCEEDINGS OF THE SPIE,US,SPIE, BELLINGHAM, VA, vol. 2711, 13 February 1996 (1996-02-13), pages 427-439, XP002083082 abstract ----	11-17
X	N.N.: "UMLS Knowledge Source Server Fact Sheet" US NATIONAL LIBRARY OF MEDICINE, 'Online! 19 February 1998 (1998-02-19), pages 1-4, XP002151056 Retrieved from the Internet: <URL:http://www.nlm.nih.gov/pubs/factsheet s/umlskss.html> 'retrieved on 2000-10-24! the whole document ----	11-17
A	MUNCHENBERG J ET AL: "Expert supported operation planning in the maxillofacial surgery" CAR '98. COMPUTER ASSISTED RADIOLOGY AND SURGERY. PROCEEDINGS OF THE 12TH INTERNATIONAL SYMPOSIUM AND EXHIBITION, PROCEEDING OF 12TH INTERNATIONAL SYMPOSIUM ON COMPUTER ASSISTED RADIOLOGY AND SURGERY, TOKYO, JAPAN, 24-27 JUNE 1998, pages 558-563, XP002151057 1998, Amsterdam, Netherlands, Elsevier Science, Netherlands ISBN: 0-444-82973-3 abstract paragraph '0001! paragraph '02.3! paragraph '02.4! -----	11,14

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5822544 A	13-10-1998	US 5465082 A	07-11-1995
		US 5291399 A	01-03-1994
		AT 179535 T	15-05-1999
		AU 691491 B	21-05-1998
		AU 6394494 A	11-10-1994
		CA 2157405 A	29-09-1994
		DE 69418188 D	02-06-1999
		DE 69418188 T	23-12-1999
		EP 0689699 A	03-01-1996
		ES 2132398 T	16-08-1999
		WO 9422098 A	29-09-1994
		US 5594786 A	14-01-1997
		US 5689229 A	18-11-1997
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US 4854324 A	08-08-1989	NONE	
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